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# Fungal Applications in Bioenergy, Bioremediation, Biomedicine, Biocontrol, and Biomaterials

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Deadline for manuscript submissions: closed (31 March 2023)

mdpi.com/si/118193

## **Message from the Guest Editors**

Dear Colleagues,

As one of the most diverse eukaryotic kingdoms on the earth, fungi show unique capacities in biomass degradation, efficient protein synthesis and secretion, and various secondary metabolic activities. Numerous fungi have been widely studied and explored for routine and industrial applications. With the excavation of a new strain of resources and advanced molecular engineering, fungi present unlimited potential in the future bioeconomic era.

This Special Issue will cover some recent advances in fungal applications in bioenergy, bioremediation, biomedicine, biocontrol, and biomaterials. The issue's scope focuses on, but is not limited to:

- Fungal degradation of xenobiotics for bioremediation
- Fungal lignocellulosic degradation and waste conversion
- Heterologous protein expression and secretion
- Metabolic engineering for chemical compounds biosynthesis
- Microbial interactions for biocontrol
- Novel technologies to develop biomaterials with fungi
- Explore new fungal strain for advanced application







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### Message from the Editor-in-Chief

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